

Summary Information

Version Date: October 2018	Prepared by: Owen Watkins	Reviewed by: Stephen Spencer	Approved by: John Tchir – Resource Manager
Waterbody ID: 4701	Surface Area: 870 ha	Hydrologic Unit Code Name (HUC_8): Amisk River	Hydrologic Unit Code (HUC_8): 12010102
Sport Fish Species: Walleye, Northern Pike, Lake Whitefish, Cisco, Yellow Perch, and Burbot			
Indigenous Fishery: Yes			
Environment and Parks Region: Red Deer North Saskatchewan Region (RDNSR)		Fisheries Management Zone: Northern Boreal 1 (NB1)	Fisheries Management Office: Spruce Grove

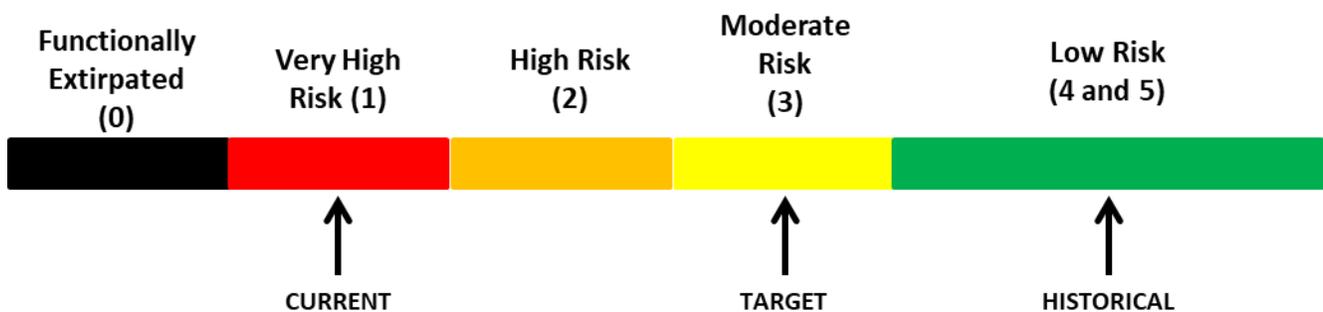
Background

Goodfish Lake is located approximately 140 km northeast of Edmonton, Alberta. The lake is primarily surrounded by farmland and the small community of Goodfish Lake is located on the lake’s northeast shore. The Whitefish Lake Indian Reserve borders the east half of the Lake, and a mixture of private and crown land around the rest of the Lake. The lake is accessed by gravel roads on the south side of the lake, and development at the lake includes a small parking area and a crude boat launch. Fall Walleye Index Nets set at Goodfish Lake in 2018 captured walleye, yellow perch, northern pike, lake whitefish, cisco, and white sucker.

Fish Population Status

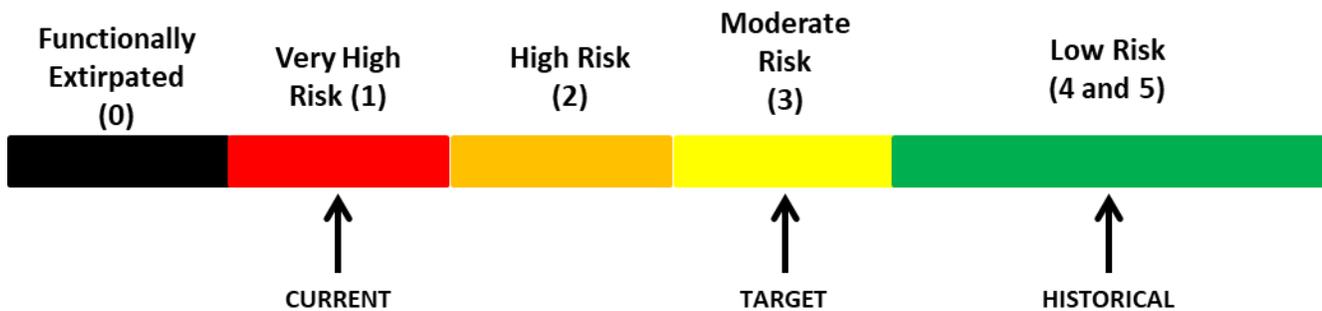
Walleye – Adult Abundance

Fish Sustainability Index Adult Density Score



Northern Pike – Adult Abundance

Fish Sustainability Index Adult Density Score



Lake Whitefish - Adult Abundance – very low (near extirpated)

Yellow Perch - Adult Abundance – very low

Burbot - Adult Abundance - Undetermined

Recreational Fishery Management Objectives

The **focal species** for recreational management is **Walleye**. The secondary species managed for recreational objectives are northern pike, yellow perch, burbot and lake whitefish. These sport-fisheries are directly assessed at intervals, and therefore are actively managed. The **Overharvest Protection Need** is assessed as **Very High Risk**.

Walleye - The recreational fishery management objective for walleye is **Sustainable Harvest**. The corresponding FSI score for the current mature density of walleye was assessed at (1) **Very High Risk** to sustainability. Recent surveys indicate a rapid decline in abundance and the walleye population is currently not meeting the status and criteria for the objective of a Sustainable Harvest fishery. Due to this exceptionally rapid decline in abundance, the current management action is **Preservation/Recovery** regulation of **Closed to Fishing** and Fisheries Management will assess all sources of mortality to ensure recovery.

Northern Pike - The recreational fishery management objective for northern pike is **Sustainable Harvest**. The corresponding FSI score for the current mature density of northern pike was assessed at (1) **Very High Risk** to sustainability. The northern pike population is currently not meeting the status and criteria for the objective of a sustainable harvest fishery. The current management action is **Preservation/Recovery** regulation of **Closed to Fishing**.

Yellow Perch – The recreational fishery management objective being applied is the provincial default (**Sustainable Harvest**). The status of the yellow perch population has not been assessed however, is very low compared to other populations. Keeping the fishery open would result in release mortality of northern pike and walleye and increasing risk. The current management action is **Preservation/Recovery** regulation of **Closed to Fishing**.

Lake Whitefish – The recreational fishery management objective being applied is the provincial default (**Sustainable Harvest**). The status of the lake whitefish population is at very high risk (low abundance). The current management action is **Preservation/Recovery** regulation of **Closed to Fishing**.

Management Summary

Management Priority	Species	Overharvest Protection Need	Management Action	Sport Fishing Harvest Regulation
1	Walleye	Very High Risk	Preservation/Recovery	Closed to Fishing
2	Northern Pike	Very High Risk	Preservation/Recovery	Closed to Fishing
3	Yellow Perch*	Very High Risk	Preservation/Recovery	Closed to Fishing
4	Lake Whitefish*	Very High Risk	Preservation/Recovery	Closed to Fishing

**Recreational management objectives for lake whitefish, yellow perch, and burbot have not been fully developed into management frameworks, and will be subject to change pending on-going work and development. However, general action statements have been listed for these species within the context of relative abundance, catch rates and trends associated with index netting assessments, in relation to the management of these species at a provincial level.*